

2023 VIZIENT CONNECTIONS SUMMIT

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SEPT. 18–21, 2023
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STAT: Stanford's Telemedicine Low-Acuity Track for Emergency Department Visits

Sam Shen, MD, MBA, Professor, Emergency Medicine; Associate Chief Quality Officer

Patrice Callagy, RN, MPH, MSN, CEN, Executive Director, Emergency Services

Meagan Moyer, MPH, RDN, Digital Health Operations Consultant

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Learning Objectives

- Describe key components of designing and implementing a virtual ED fast track program.
- Outline the benefits and patient care quality outcomes that may result from a virtual fast track program.
- Identify opportunities to leverage digital health technology to improve quality outcomes and extend physician and capacity resources.

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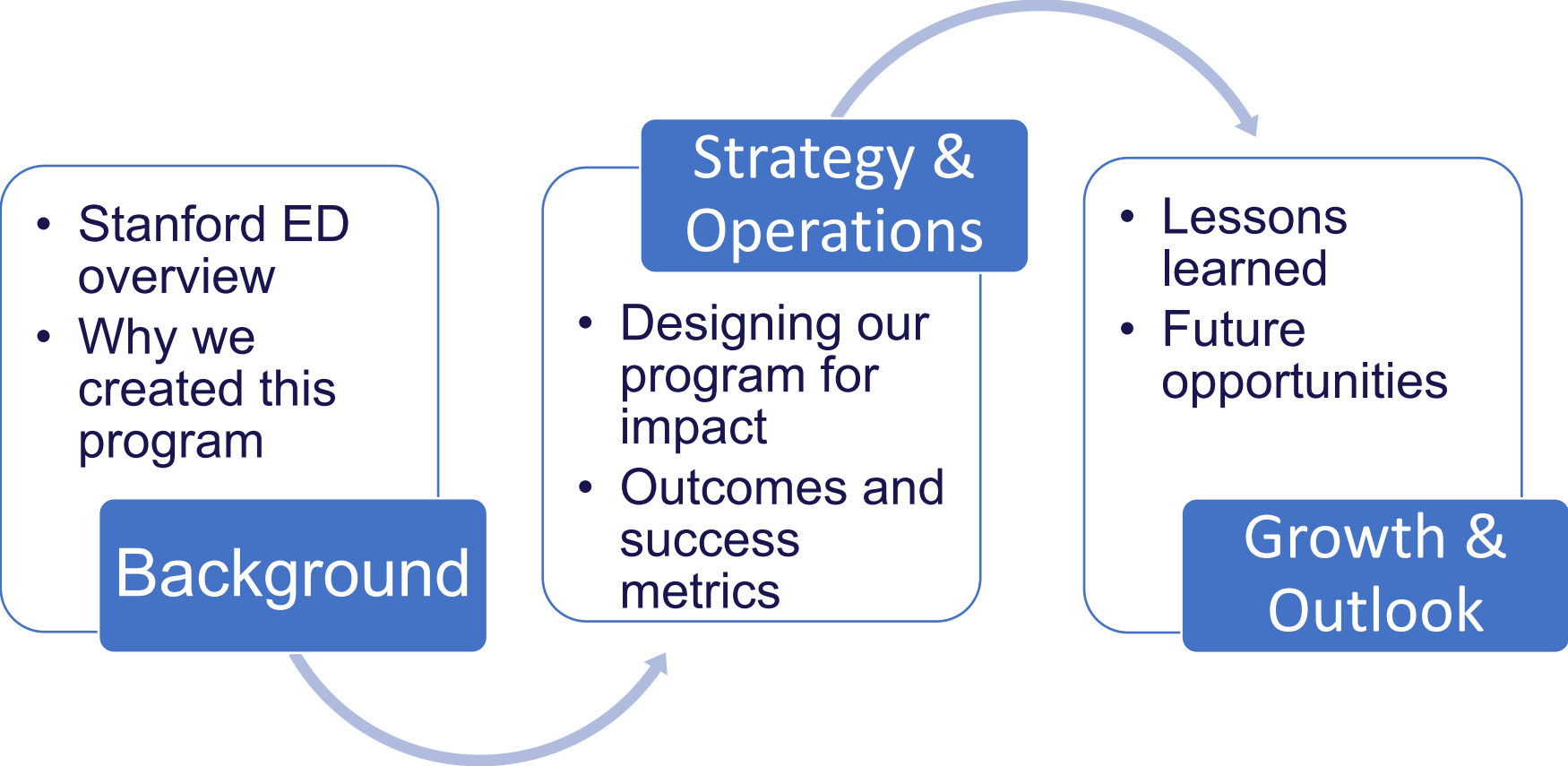
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Today's Discussion



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Stanford Health Care Emergency Medicine



“Transforming healthcare for all by leading in the **advancement** of emergency medicine through **innovation** and scientific discovery.”

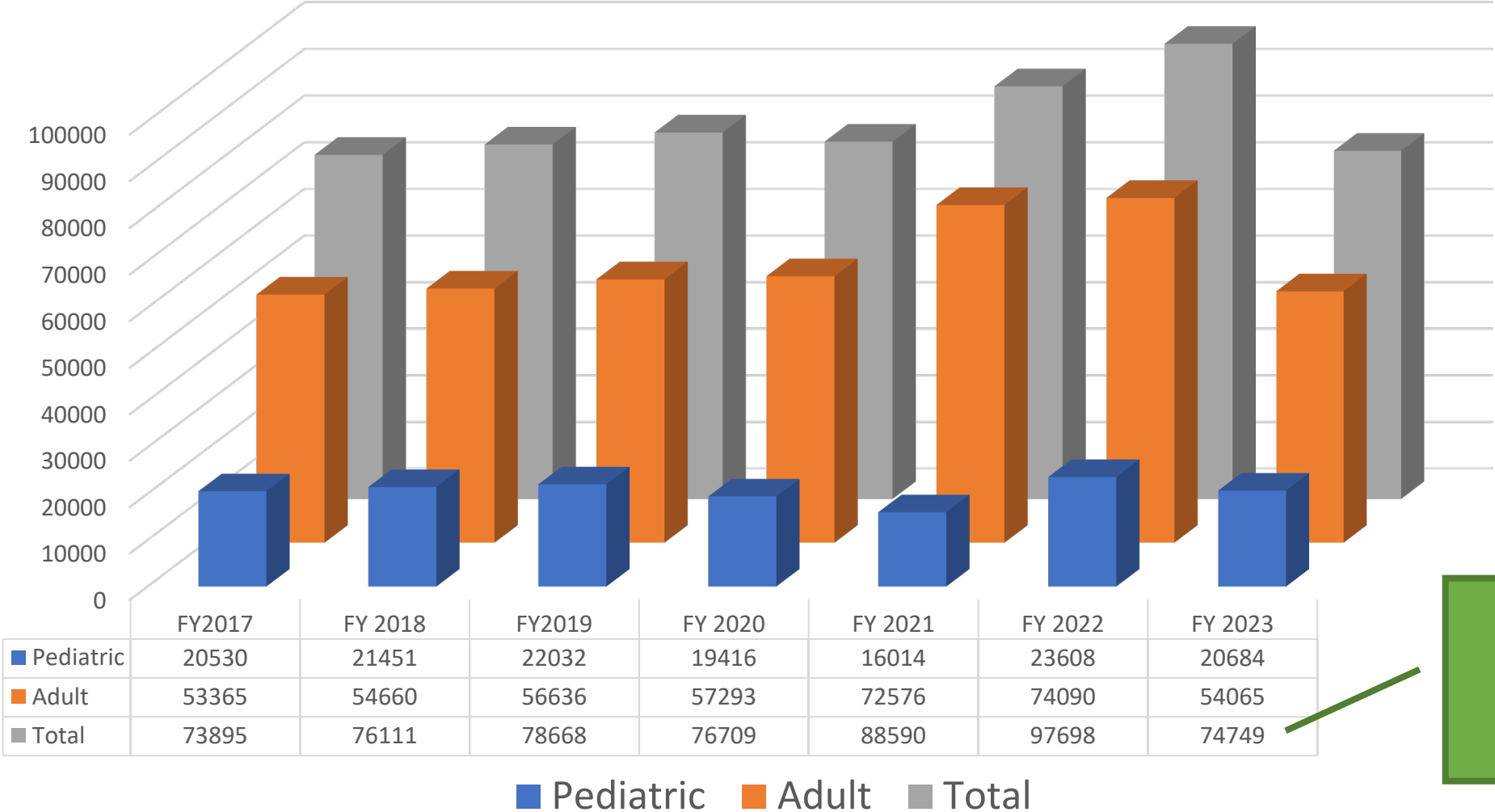
Level I Trauma Center	Operate 2 EDs: Adult and Pediatric	70,000+ adult patients yearly	20,000+ pediatric patients yearly	80 full-time faculty physicians	66 adult and 15 pediatric ED beds
EM residency and 13 fellowships	12.7% ESI 4-5 (Low Acuity Pts)	31% ED patients admitted to inpatient	Comprehensive Stroke and Chest Pain Center	Level 2 Geriatric ED	

Data as of April 2023

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ED volumes increasing over time



Projected
>100,000
combined ED
visits FY23

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Designing our ED Virtual Fast Track Program



ED patients are prioritized for bed availability by acuity (ESI), leading to **longer wait times** for less urgent needs.



EDs commonly create Fast Track programs deliver timely care. In 2019, proposal to **convert adult and pediatric** EDs to a Virtual Fast Track program.



Program goals included ED **length of stay reduction** (throughput) and overcrowding. Infection control and PPE usage were also important outcomes.



Leveraged Health IT resources to create **novel processes** that allows for **extension of physician resources** and multi-site care.

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Virtual fast track zone in ED lobby



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Identifying patients for virtual fast track

Adult Emergency Department

INCLUSION:

- All ESI 5, 4, and 3 patients except clinical presentations in Exclusion list

EXCLUSION:

- Patient over 70 years old
- Vision complaints
- Altered mental status
- Breast, genital, groin or rectal exams
- New neurologic abnormalities
- Critically abnormal vital signs or EKG

Pediatric Emergency Department

INCLUSION:

- ESI 4 and 5 patients

Patients do not need to be quick evaluations.

It is okay if patients require higher level of care within the ED. Discuss with RSN to move patient to room as appropriate.

EXCLUSION:

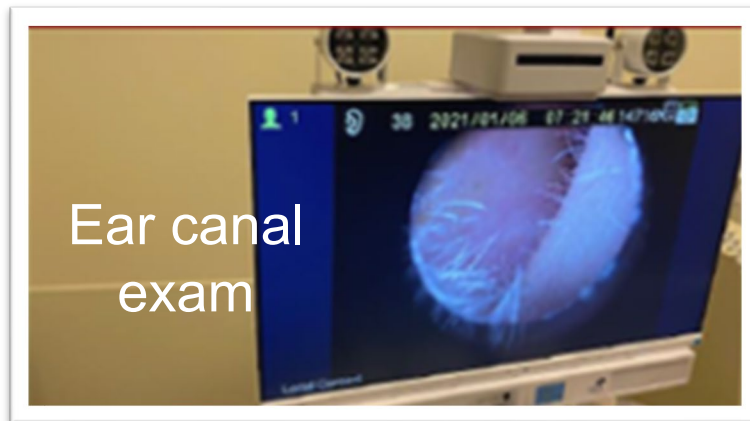
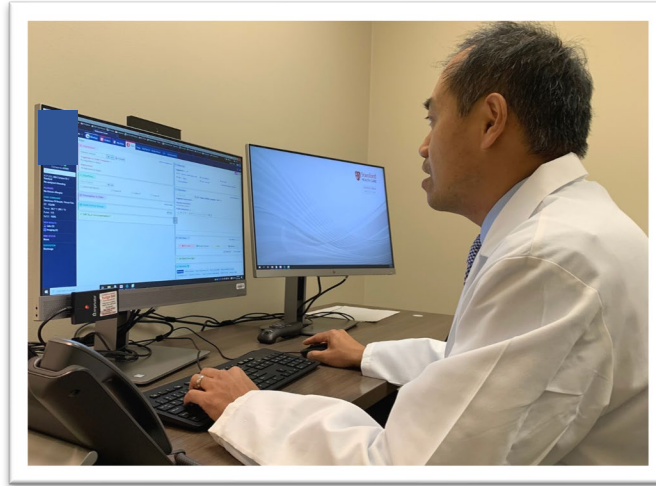
- Less than 2 years of age
- Likely to need procedures, lab work, special equipment
- Need to be observed (*oral intake trial, mild head injury, etc.*)
- Sent in by an outside physician or service
- Were in the ED within 7 days
- Has “violent patient” flag, SCAN team needs, or psych eval
- Medically complex

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Technical solutions for patients and physicians

Telemedicine MD workstation



Ear canal exam

Lung and heart sounds



Skin, throat, ear camera

*Permission granted for pictures

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Top 10 Video Visit Chief Complaints

Adult patients triaged to Virtual Fast Track since Dec 2020

1	Sore throat (ESI 4)	6	Rash (ESI 4)
2	Chest pain (ESI 3)	7	Knee pain (ESI 4)
3	Cough (ESI 4)	8	Ear pain (ESI 4)
4	Abdominal pain (ESI 3)	9	Back pain (ESI 3)
5	Back pain (ESI 4)	10	Foot pain (ESI 4)



- ✓ Not just “minor illnesses”
- ✓ Expansion of scope to higher complexity patients

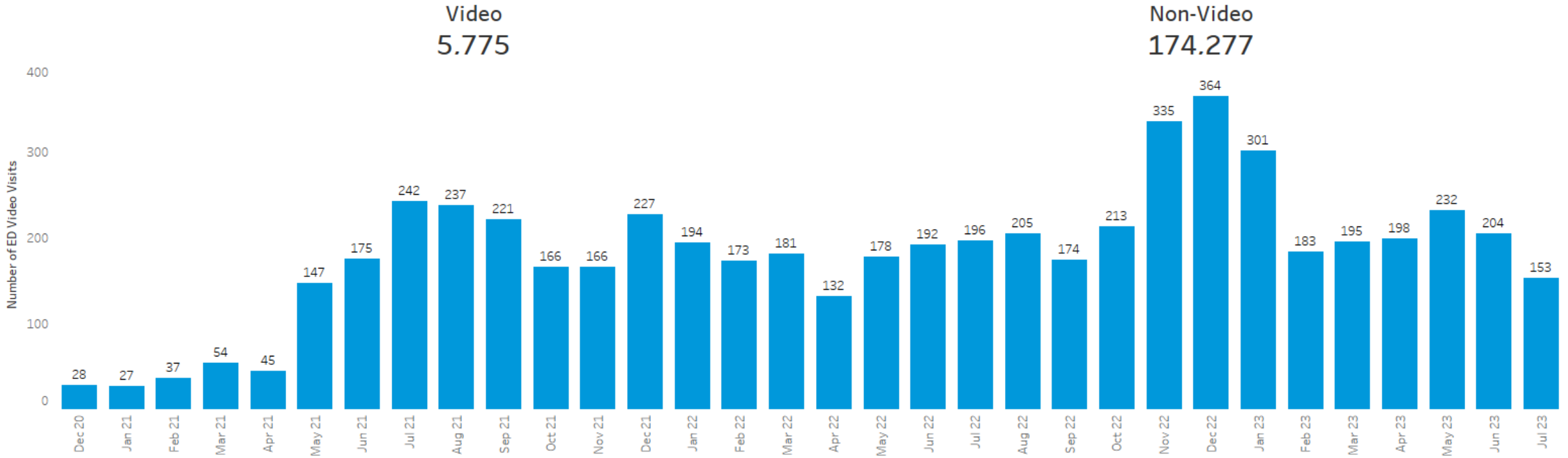
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Demonstrating Impact of Intervention

Definitions

Unscheduled ED Video Visit Volumes (12/1/2020 - 7/31/2023)



- ✓ Real time monitoring of metrics
- ✓ Project management tool to improve outcomes and iterate workflows.

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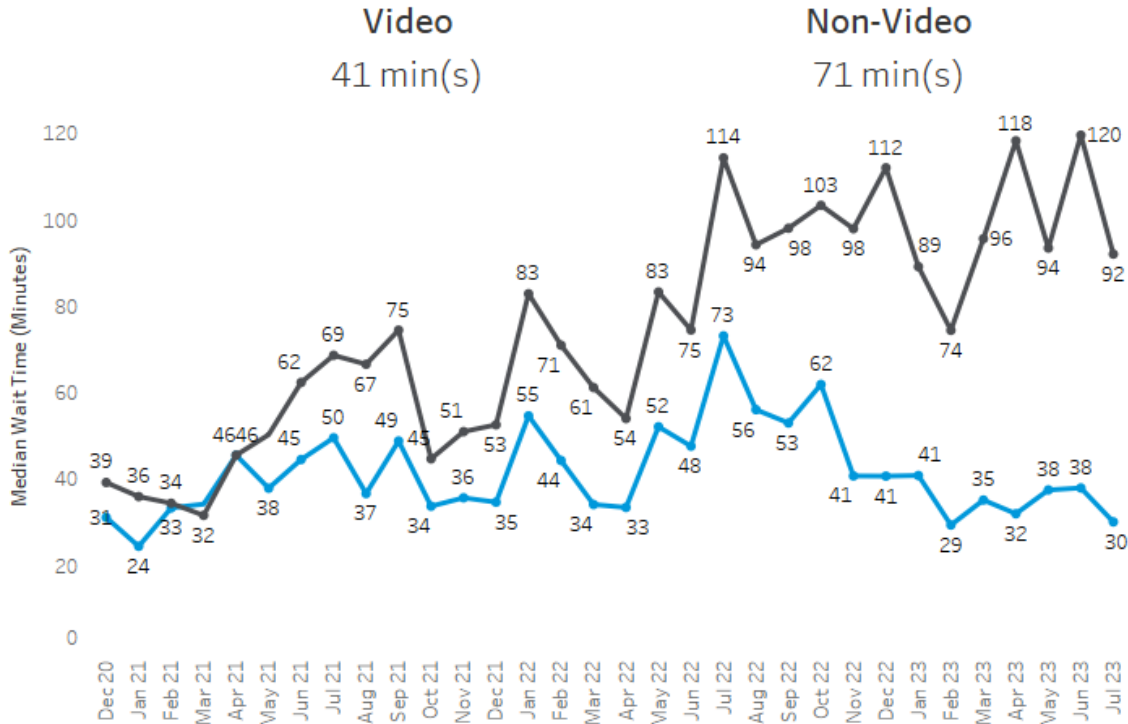
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Improving Patient Throughput

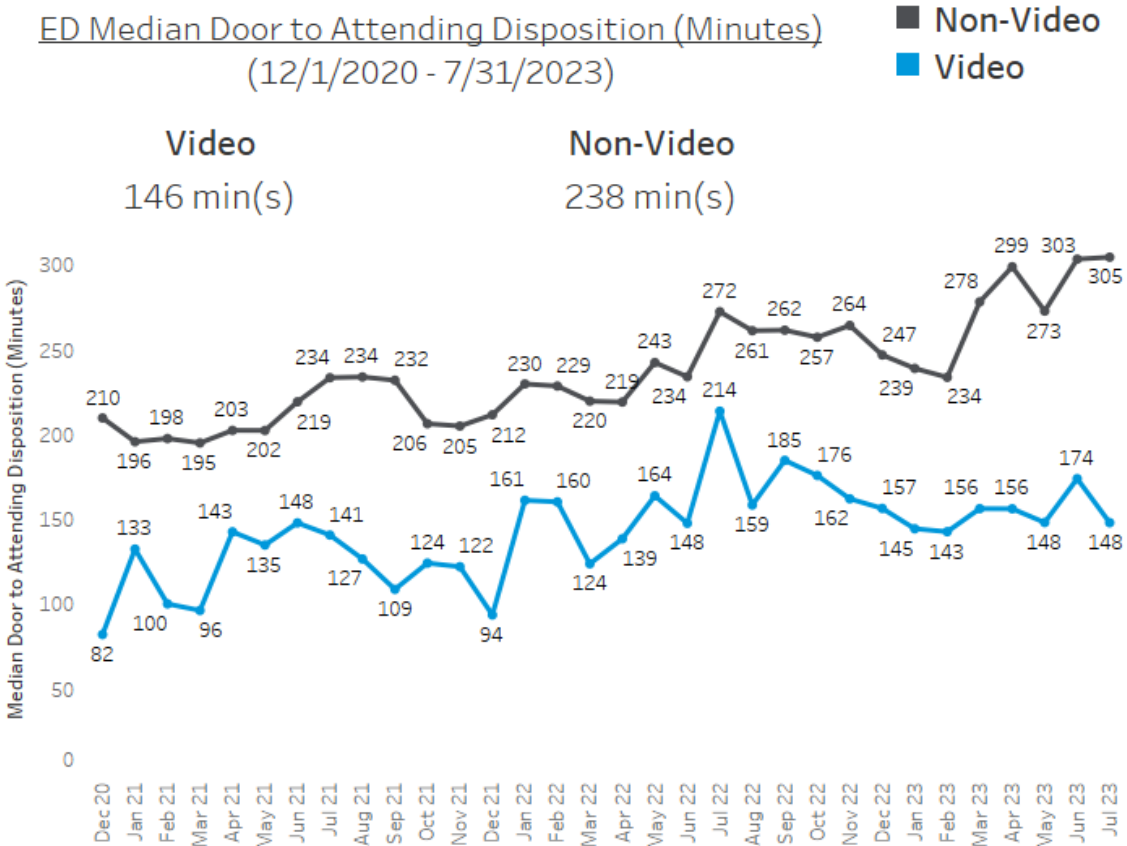
Virtual fast track results in decreased overall patient time spent in ED

Definitions

ED Median Wait Times (Minutes)
(12/1/2020 - 7/31/2023)



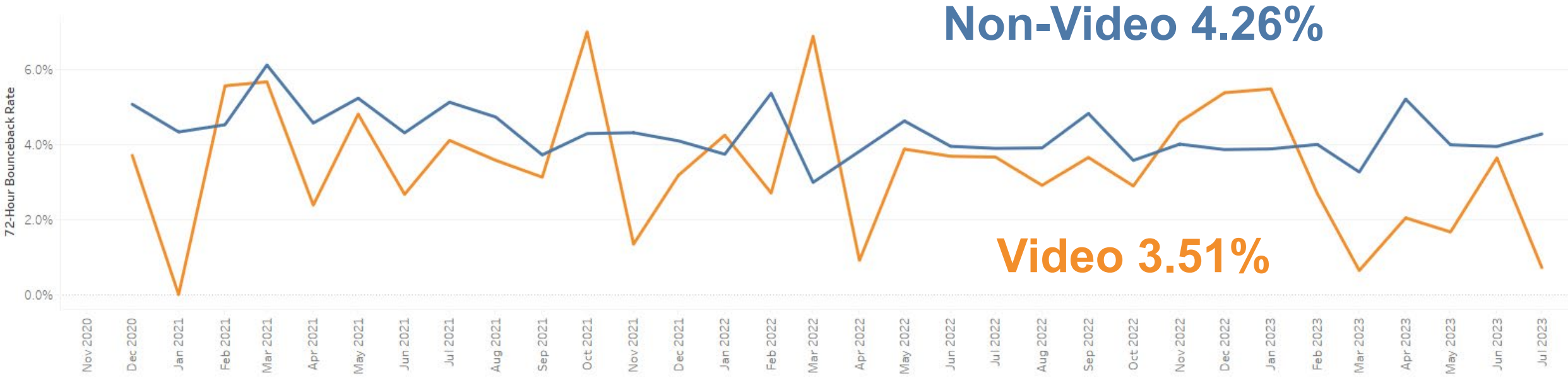
ED Median Door to Attending Disposition (Minutes)
(12/1/2020 - 7/31/2023)



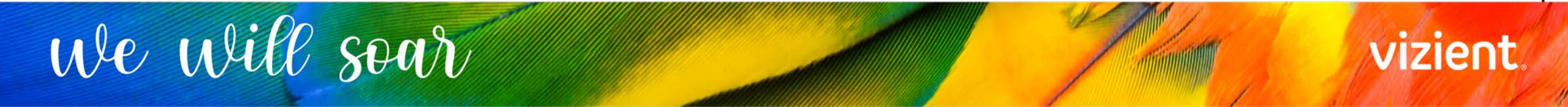
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Lower 72-hour ED Return Rates for Virtual Fast Track Patients



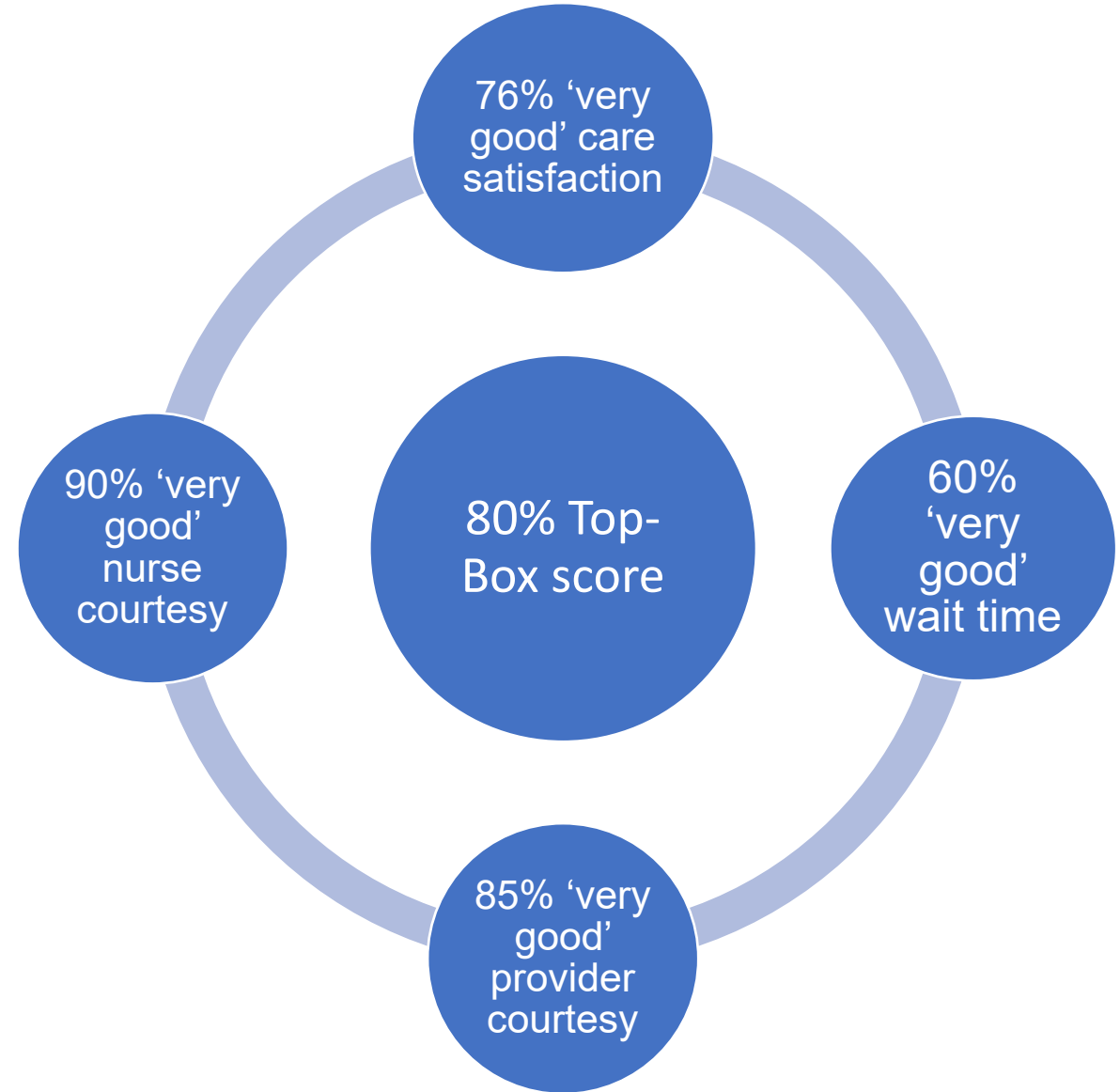
Data: Virtual fast track patients and traditional ED adult patients' 72-hour Bounceback rates for ESI 3, 4, and 5, Dec 2020 – July 2023



Positive patient feedback for ED virtual care



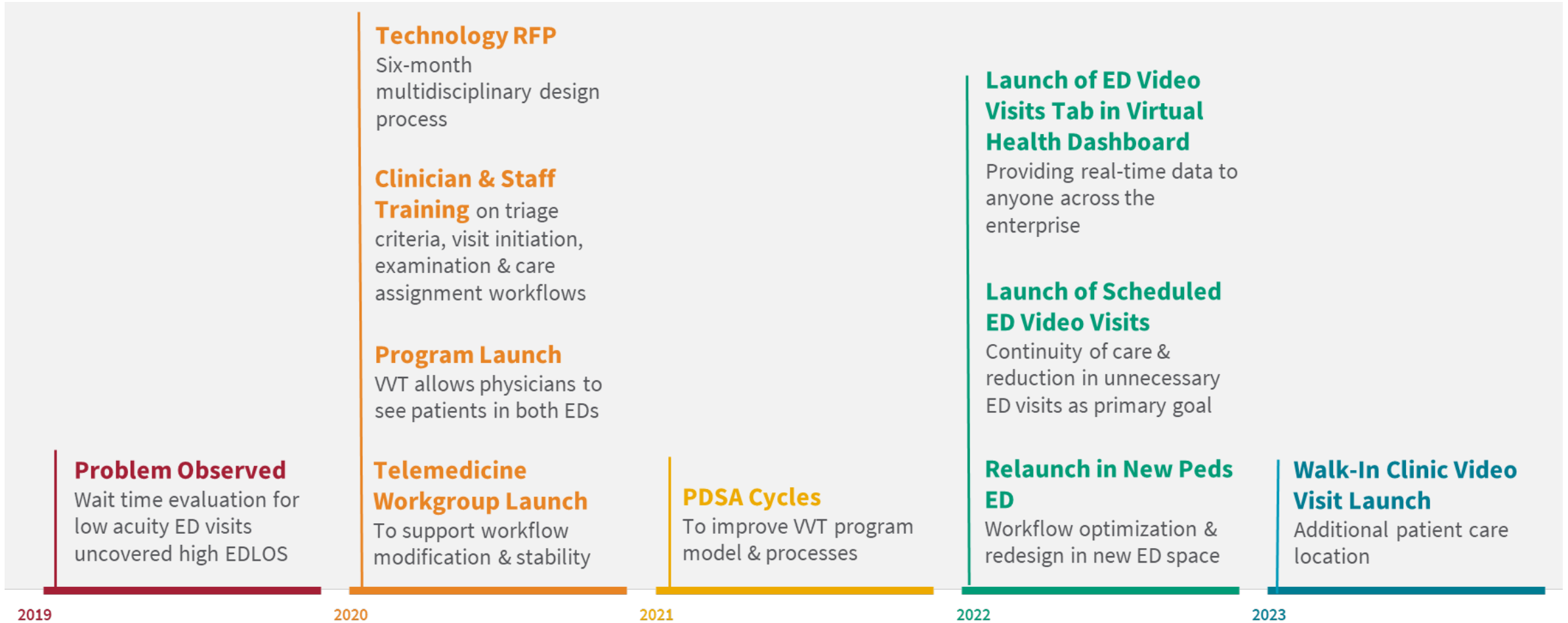
“I was seen by video visit and the whole process was really smooth.”



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Emergency medicine virtual care expansion

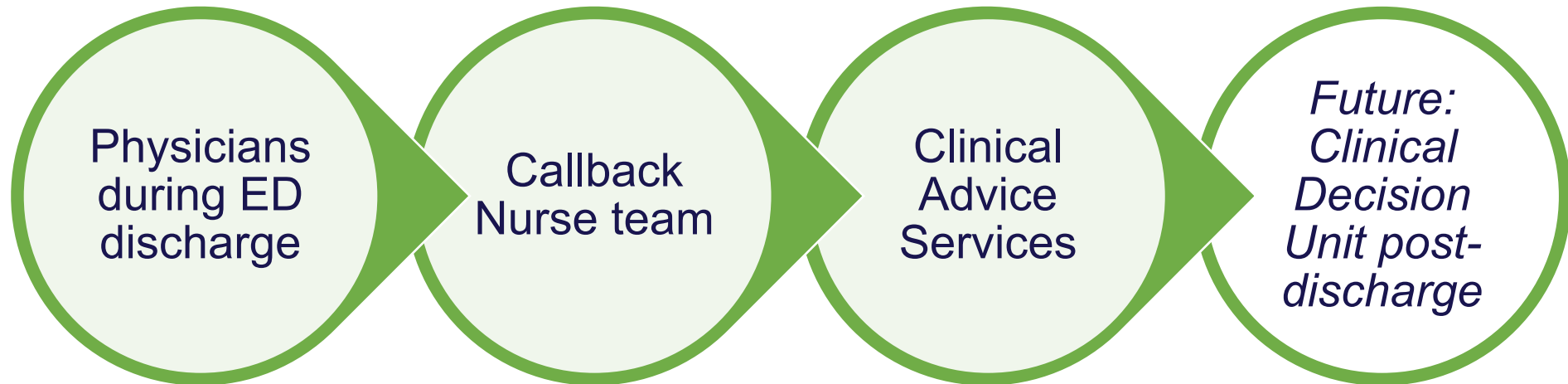


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Expanding Care Beyond the ED

Preventing unnecessary admissions

Solution: scheduled video visit with telemedicine ED physician for urgent medical needs



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Future Telehealth Opportunities

On Site Care



Remote Monitoring



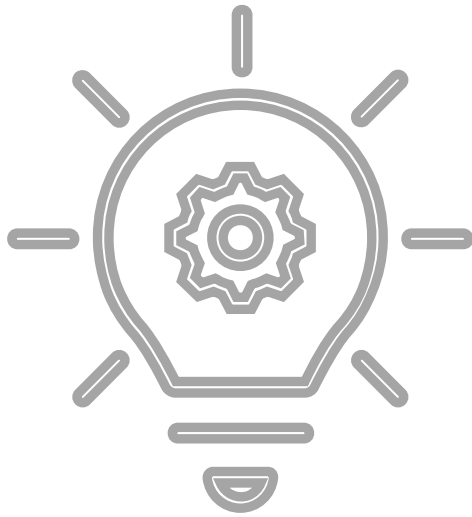
Virtual Care outside ED



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Virtual fast track lessons learned



MD and RN triage criteria alignment important

Dedicated tele-presenter role improves patient flow and efficiency

Communicate and inform patients on expectations for better acceptance

Set metrics early, measure often and iterate on outcomes

Continuous improvement efforts needed to optimize program

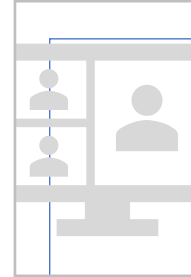
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Key Takeaways



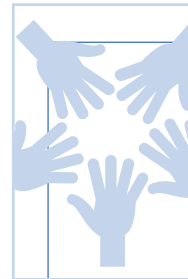
Increasing ED crowding requires innovative approaches for managing patient flow and capacity



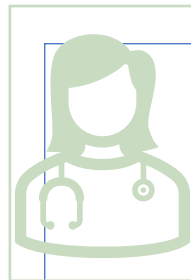
Telemedicine is a safe and effective tool to address low acuity ED population



Virtual Visit track can reduce length of stay and door to physician time while not compromising patient satisfaction or return rate



Multi-disciplinary approach from design to implementation is critical for success



Telemedicine can help scale the physician resource across multiple sites

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Questions?



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Contact:

Sam Shen MD, sshen01@stanford.edu

Patrice Callagy, pcallagy@stanfordhealthcare.org

Meagan Moyer, mmoyer@stanfordhealthcare.org

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